

**CalESCO****CALIFORNIA EARTH SCIENCE CORPORATION**

CR-138645

1318 SECOND STREET, SUITE 27 SANTA MONICA, CALIFORNIA 90401 TELEPHONE 395-4528, AREA CODE 213

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MONTHLY PROGRESS REPORT NO. 13

June 1974

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Fault Tectonics and Earthquake Hazards in the Peninsular  
Ranges, Southern California, EREP investigation 463

NASA, Ames Research Center  
Mail Code 241-1  
Moffett Field, CA 94035

Attention: Mr. Gabriel Fox  
Contracting Officer

Gentlemen:

California Earth Science Corporation (CalESCO) is pleased to submit its 13th  
Monthly Progress Report on the application of Skylab imagery to analysis of  
fault tectonics and earthquake hazards in the Peninsular Ranges, southern  
California under NASA Contract No. NAS 2-7698.

Summary Outlook

The principal plans for the immediate future are to continue analysis of images  
from SL1/SL2 and SL3. The milestone plan provides a time-oriented schedule of  
the entire effort to be performed.

Significant Progress

1. Two SO 192 tapes were received.
2. A paper entitled "Structural lineaments in the basement terrane of the  
Peninsular Ranges, southern California," was presented at the "First  
International Conference on the New Basement Tectonics," Salt Lake City,  
June 3, 1974. This paper is being prepared for submission to conference  
proceedings and will constitute a technical report under this contract.
3. Field work on the San Ysidro Creek and Thing Valley faults was completed.  
The results of the investigation are presented in the paper described  
under item 2 above.

(E74-10570) FAULT TECTONICS AND  
EARTHQUAKE HAZARDS IN THE PENINSULAR  
RANGES, SOUTHERN CALIFORNIA Monthly  
Progress (California Earth Science Corp.,  
Santa Monica.) 2 p HC \$4.00 CSCL 08E

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4. A systematic program of measuring faults in roadcuts throughout the Peninsular Ranges was continued. One hundred nine faults have been measured to date.
5. Evaluation of the photo interpretation test given to 35 students at UCLA were completed. Results will be reported separately.

Expected Accomplishments, Current Month


1. Work on technical reports describing significant results to date will be continued. The report on lineaments in the Peninsular Ranges will be submitted to NASA on or about 15 July 74.
2. Skylab images of the Peninsular Ranges will be enlarged to 1:250,000 for direct comparison with the state geologic maps.

Travel Summary and Plans

Dr. Merifield will attend the P.I. meeting JSC on July 16-18. He will remain in Houston for the Active Microwave Workshop the following week sponsored by NASA Hdqtrs.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.

  
Paul M. Merifield  
Principal Investigator

cc: National Aeronautics and Space Administration  
Scientific and Technical Information Facility  
Code KS  
Washington, D.C. 20546

Mr. John W. Tremor  
NASA, Ames Research Center  
Moffett Field, CA 94035

NASA Manned Spacecraft Center  
Attn: Martin Miller, Mail Code TF6  
Houston, TX 77058

NASA Manned Spacecraft Center  
Earth Observation Division  
Attn: V. M. Dauphin, Mail Code TF  
Houston, TX 77058